

PATENT
DP-301063

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sayeed A. Mir et al.)
Serial No.: 10/056,634) Examiner: Lair, Donald M.
Filing Date: 01/23/2002) Group Art Unit: 2858
Title: CURRENT DETERMINATION IN A)
PERMANENT MAGNET ELECTRIC MACHINE)

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Applicants respectfully request consideration and recordation of the reference(s) and/or information on attached form PTO-1449 in the present application, for which a request for continued examination under 37 CFR 1.114 has been concurrently filed herewith.

A European search report issued August 5, 2004 in counterpart European Patent application No. EP 00963552.5 is also hereby disclosed.

If any additional fee or additional amount of fee is required in connection with this submission, please charge the appropriate fee to Delphi Technologies Deposit Account No. 50-0831.

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Signature: Suzanne M. Brutt
Suzanne M. Brutt

Respectfully submitted,

By: 

Michael D. Smith
Reg. No. 40,181
Attorney for Applicants
Delphi Technologies, Inc.
5825 Delphi Drive
Troy, Michigan 48098
Telephone (248) 813-1250
Fax (248) 813-1211

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Atty. Docket No. DP-301063	Serial No. 10/056,634
Applicant Sayeed A. Mir et al.	
Filing Date 01/23/2002	Group 2858

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U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5361210	11/01/1994	Fu			
	5459732	10/17/1995	Wise et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
0822648	02/04/1998	EP			
0841574	05/13/1998	EP			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| "Single Current Sensor Technique in the DC Link of Three-Phase PWM-VS Inverters: A Review and a Novel Solution", IEEE Transactions on Industry Applications, Vol. 33, No. 5, Sept/Oct 1997, pages 1241-1253, Frede Blaabjerg, John K. Pedersen, Ulrik Jaeger, and Paul Thøgersen

| "Single Sensor Current Control of AC Servodrives Using Digital Signal Processors", Power Electronics and Applications, Vol. 4, Sept. 13, 1993, pages 415-421, J.F. Moynihan, S. Bolognani, R.C. Kavanagh, M.G. Egan, J.M.D. Murphy

Examiner

|Date Considered

***Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 96 3552

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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21-07-2004

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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EP 0822648	A	04-02-1998	FR	2752111 A1	06-02-1998
			DE	69709456 D1	07-02-2002
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**SUPPLEMENTARY
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Application Number

EP 00 96 3552

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	BLAABJERG, F.; PEDERSEN, J.K.; JAEGER, U.; THOEGERSEN, P.: "Single current sensor technique in the DC link of three-phase PWM-VS inverters: a review and a novel solution" IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 33, no. 5, September 1997 (1997-09), - October 1997 (1997-10) pages 1241-1253, XP002289234 * figures 6,7,10,14,15 * * page 1248, column 1; figure 1 *	1,16	G01P3/48 H02P6/08 H02P6/14 B62D5/04
X	* page 1246, column 1252; figures 10,12-15,17 *	2-15, 17-62	
X	MOYNIHAN, J.F.; BOLOGNANI, S.; KAVANAGH, R.C.; EGAN, M.G.; MURPHY, J.M.D.: "Single sensor current control of AC servodrives using digital signal processors" POWER ELECTRONICS AND APPLICATIONS, vol. 4, 13 September 1993 (1993-09-13), - 16 September 1993 (1993-09-16) pages 415-421, XP002289235 * page 419, column 1; figures 1,4-6; tables 1,2 * * pages 416-419; figure 1 *	1,16	
Y	US 5 361 210 A (FU JIAN-GUO) 1 November 1994 (1994-11-01) * column 5, line 18 - column 6, line 3; figure 1 *	2-15, 17-62	
Y	EP 0 822 648 A (TEXAS INSTRUMENTS FRANCE ; TEXAS INSTRUMENTS INC (US)) 4 February 1998 (1998-02-04) * column 12, lines 3-46; figures 2,5 *	1-24	
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TECHNICAL FIELDS
SEARCHED (Int.Cl.7)

H02P
G01P
B62D

Place of search

Munich

Date of completion of the search

21 July 2004

Examiner

Kanelis, K

CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone
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A: technological background
O: non-written disclosure
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T: theory or principle underlying the invention
E: earlier patent document, but published on, or after the filing date
D: document cited in the application
L: document cited for other reasons
&: member of the same patent family, corresponding document

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EUROPEAN SEARCH REPORT**

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Application Number
EP 00 96 3552

DOCUMENTS CONSIDERED TO BE RELEVANT			
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Y	EP 0 841 574 A (RELIANCE ELECTRIC IND CO) 13 May 1998 (1998-05-13) * figures 1-9 *	25-62	
Y	US 5 459 732 A (FRUEHLING TERRY L ET AL) 17 October 1995 (1995-10-17) * figures 2,5-7 *	25-62	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 21 July 2004	Examiner Kanelis, K
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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